

## EAST Search History

| Ref # | Hits   | Search Query   | DBs                                      | Default Operator | Plurals | Time Stamp          |
|-------|--------|--|--|------------------|---------|---------------------|
| L1    | 26     | (suenaga and moriya and morikawa and sakai).in.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L2    | 3355   | 219/678-702.ocls.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L3    | 907395 | L1 na d2   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L4    | 0      | L1 and L2  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L5    | 0      | (suenaga and moriya and morikawa and sakai and mihara and shirokawa and matsufura and matsudu).in. | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L6    | 0      | (suenaga and moriya and morikawa and sakai and mihara and shirokawa and matsukura and matsudu).in. | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L7    | 4      | (suenaga and moriya and morikawa and sakai and mihara and shirokawa and matsukura and matsuda).in. | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L8    | 10     | ("4843202" or "4319317" or "4336569" or "4812617" or "4868362").pn.                                | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |
| L9    | 2      | L8 and shunt   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/02/14<br>05:44 |

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| L10 | 3364 | L2 or L8  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L11 | 2    | L10 and shunt with<br>resistor  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L12 | 2    | L10 and shunt with<br>resistor and<br>(microwavw or<br>high with<br>frequency)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L13 | 2    | L10 and shunt with<br>resistor and<br>(microwavw or<br>high with<br>frequency) and<br>magnetron   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L14 | 1    | L10 and shunt with<br>resistor with<br>current and<br>(microwavw or<br>high with<br>frequency) and<br>magnetron   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L15 | 0    | L10 and shunt with<br>resistor with<br>current and<br>(microwavw or<br>high with<br>frequency) and<br>magnetron and<br>boost with<br>transformer                      | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L16 | 0    | L10 and shunt with<br>resistor with<br>current and<br>(microwavw or<br>high with<br>frequency) and<br>magnetron and<br>(boost or step with<br>up) with<br>transformer | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |

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| L17 | 2    | shunt with resistor with current and (microwavw or high with frequency) and magnetron and (boost or step with up) with transformer                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |
| L18 | 2    | shunt with resistor with current and (microwave or high with frequency) and magnetron and (boost or step with up) with transformer                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |
| L19 | 2    | shunt with resistor with current and (microwave or high with frequency) and magnetron and (boost or step with up) with transformer and (operational or op with amp) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |
| L20 | 1    | 219/716.cds. and shunt with resistor with current   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |
| L21 | 1    | 219/716.cds. and shunt with resistor with current and (operational or op with amp)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |
| L22 | 1043 | unidirectional with power with source   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |
| L23 | 1    | 219/716.cds. and shunt with resistor with current and (operational or op with amp) and buffer   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/02/14 05:44 |

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| L24 | 0      | 219/716.ccls. and shunt with resistor with current with buffer and (operational or op with amp)           | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L25 | 1      | L23 and shunt with buffer   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L26 | 0      | 219/716.ccls. and shunt with resistor with series and current and (operational or op with amp) and buffer | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L27 | 441    | 219/716.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L28 | 1      | 219/716.ccls. and "shunt resistor" with current   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L29 | 15829  | L24 nad L28   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L30 | 0      | L24 and L28   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:44 |
| L31 | 441    | 219/716.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/02/14<br>05:45 |
| S1  | 23     | (suenaga and moriya and morikawa and sakai).in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:38 |
| S2  | 3308   | 219/678-702.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:38 |
| S3  | 815784 | S1 na d2  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:38 |
| S4  | 0      | S1 and S2   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:38 |

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|-----|------|--|--|----|----|---------------------|
| S5  | 0    | (suenaga and moriya and morikawa and sakai and mihara and shirokawa and matsufura and matsudu).in. | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:40 |
| S6  | 0    | (suenaga and moriya and morikawa and sakai and mihara and shirokawa and matsukura and matsudu).in. | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:40 |
| S7  | 4    | (suenaga and moriya and morikawa and sakai and mihara and shirokawa and matsukura and matsuda).in. | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:42 |
| S8  | 10   | ("4843202" or "4319317" or "4336569" or "4812617" or "4868362").pn.                                | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:49 |
| S9  | 2    | S8 and shunt   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:51 |
| S10 | 3317 | S2 or S8   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:51 |
| S11 | 2    | S10 and shunt with resistor  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:52 |
| S12 | 2    | S10 and shunt with resistor and (microwavw or high with frequency)                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:53 |
| S13 | 2    | S10 and shunt with resistor and (microwavw or high with frequency) and magnetron                   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>08:56 |

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|-----|---|--|------------------------------------|----|----|------------------|
| S14 | 1 | S10 and shunt with resistor with current and (microwavw or high with frequency) and magnetron  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/08/20 08:59 |
| S15 | 0 | S10 and shunt with resistor with current and (microwavw or high with frequency) and magnetron and boost with transformer                   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/08/20 09:01 |
| S16 | 0 | S10 and shunt with resistor with current and (microwavw or high with frequency) and magnetron and (boost or step with up) with transformer | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/08/20 09:01 |
| S17 | 2 | shunt with resistor with current and (microwavw or high with frequency) and magnetron and (boost or step with up) with transformer         | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/08/20 09:04 |
| S18 | 2 | shunt with resistor with current and (microwave or high with frequency) and magnetron and (boost or step with up) with transformer         | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/08/20 09:04 |

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|-----|------|---|--|----|----|---------------------|
| S19 | 2    | shunt with resistor with current and (microwave or high with frequency) and magnetron and (boost or step with up) with transformer and (operational or op with amp) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:06 |
| S20 | 1    | 219/716.ccls. and shunt with resistor with current  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:09 |
| S21 | 1    | 219/716.ccls. and shunt with resistor with current and (operational or op with amp)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:23 |
| S22 | 1054 | unidirectional with power with source   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:18 |
| S23 | 1    | 219/716.ccls. and shunt with resistor with current and (operational or op with amp) and buffer  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:26 |
| S24 | 0    | 219/716.ccls. and shunt with resistor with current with buffer and (operational or op with amp)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:51 |
| S25 | 1    | S23 and shunt with buffer   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:28 |
| S26 | 0    | 219/716.ccls. and shunt with resistor with series and current and (operational or op with amp) and buffer   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:26 |
| S27 | 438  | 219/716.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:29 |
| S28 | 1    | 219/716.ccls. and "shunt resistor" with current   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:30 |

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| S29 | 15183 | S24 nad S28 | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:51 |
| S30 | 0     | S24 and S28 | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/08/20<br>09:51 |

2/ 14/ 2008 5:49:49 AM

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